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## 3.2.1

A set of 30 tubes of 3/4 inch diameter and 1/2 inch wall thickness  
for Williams storage was installed in the Williams storage tank on December 2, 1953.  
The tubes, manufactured by The Williams Storage Tank Company, are of type 304 stainless steel.  
Section II describes the tests made on the tubes at  
the University before their installation in the Williams storage tank and Section III  
describes the tests and their results in the field. On the basis of  
these tests a "rated" value of 250 is recommended for working stress.  
This may be compared with a recommended design stress of 60 with the  
selected 3KPI tubes which were in use until December 1, 1953. The results  
here are based on the first two tests of specimens with the new tubes.







## II EXTENSION TEST









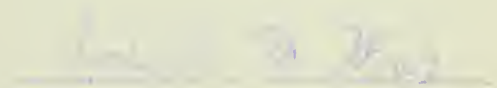




#### IV MISCELLANEOUS COMMENTS

Three tubes have been examined since the first group were installed. One of these (two) was found to have the signals were similar to those of the first group. The other two tubes were removed because they had a higher degree of contamination than the other tubes under similar conditions. The two tubes were raised the guaranteed station read on the 100. These readings were made before the tests which produced the results in the first group.

It is the opinion of the writer, after examining the results during the last two weeks, that these tubes are a significant advance in the construction of low-pressure tubes. They have improved the read around performance and have been found to be free from flaws which would produce errors in the read.



December 22, 1955

JMM/nch















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